

WO 2004/000367

PCT/CA2003/000882

Figure 1

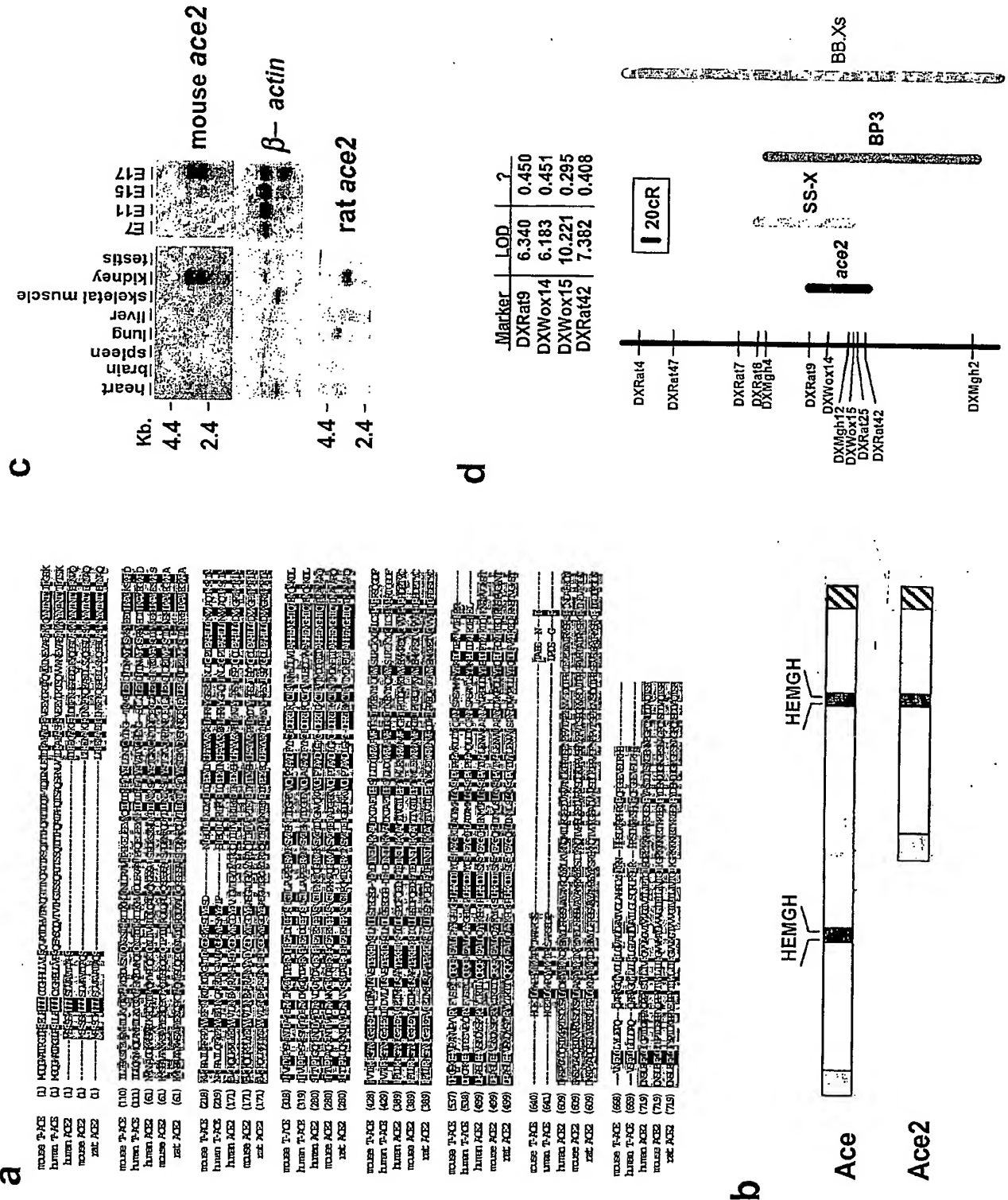


Figure 2a

a

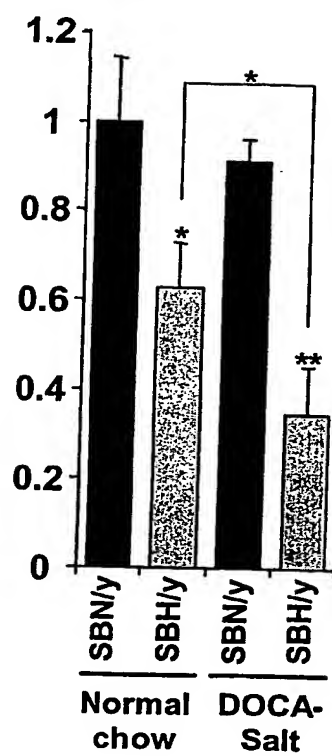
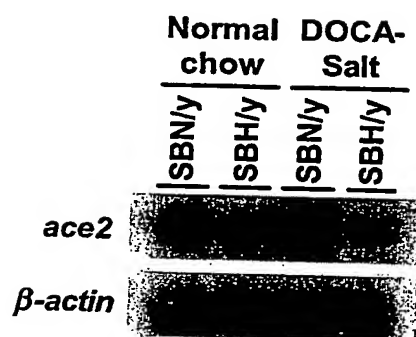


Figure 2b

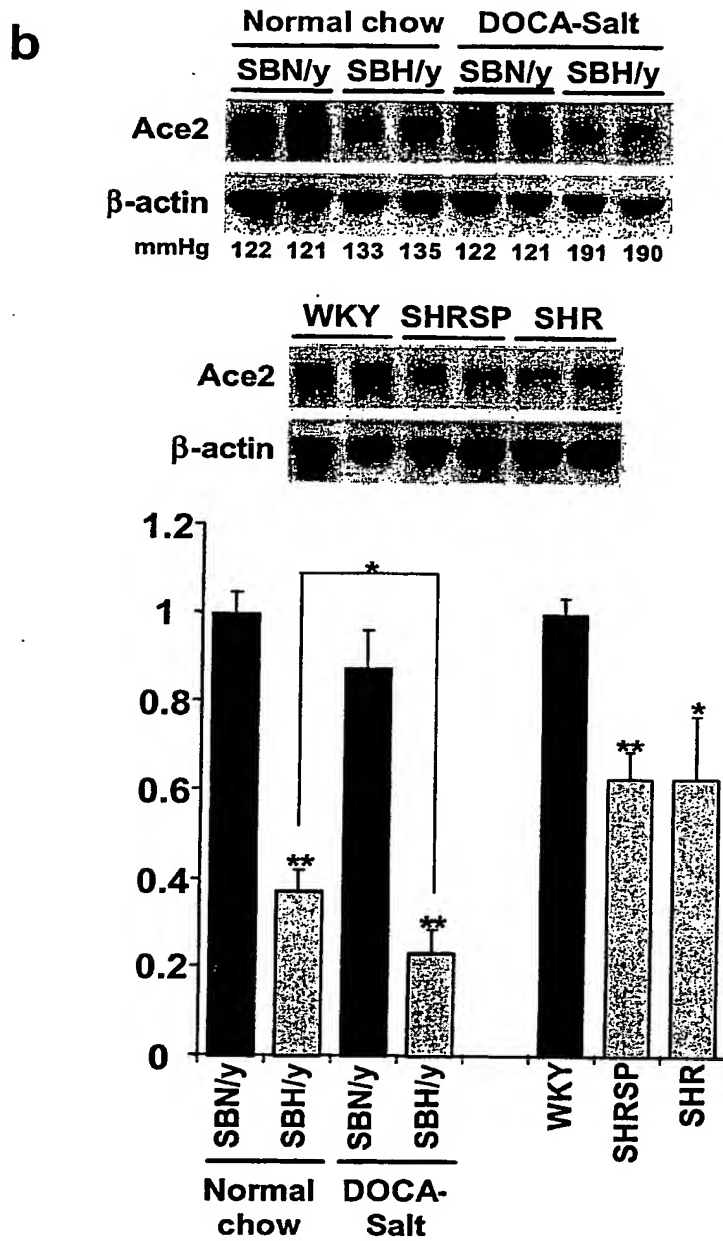


Figure 3a

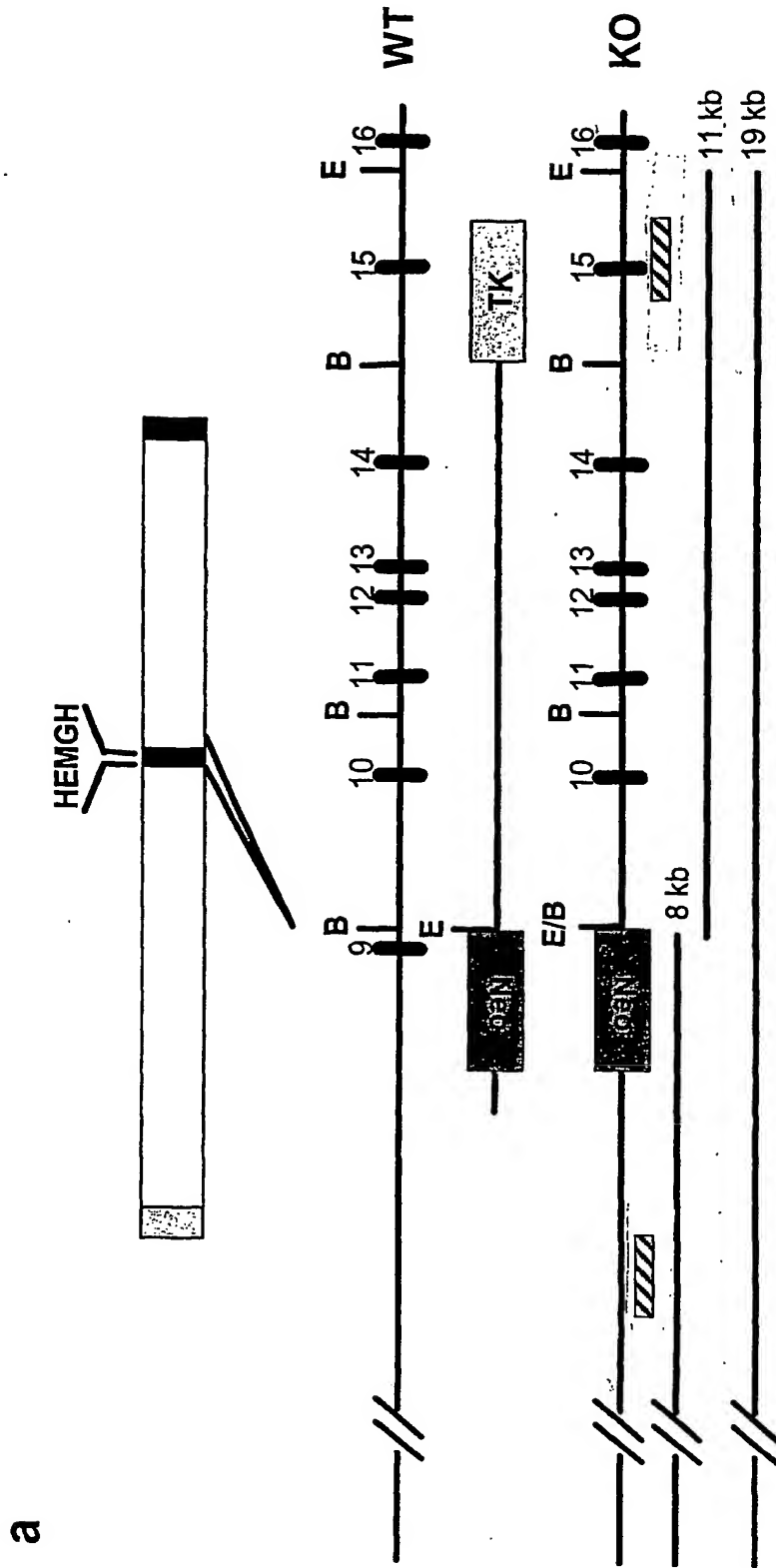


Figure 3b, 3c, 3d

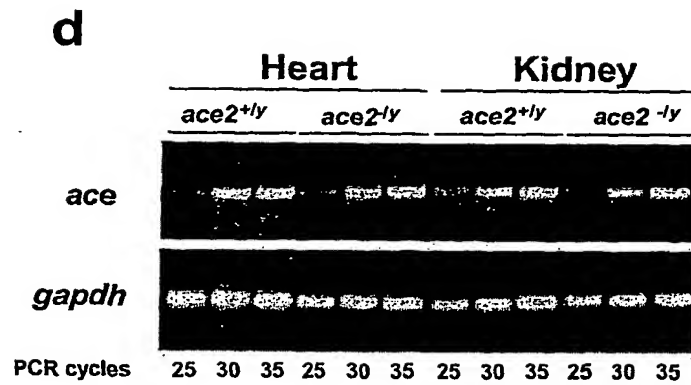
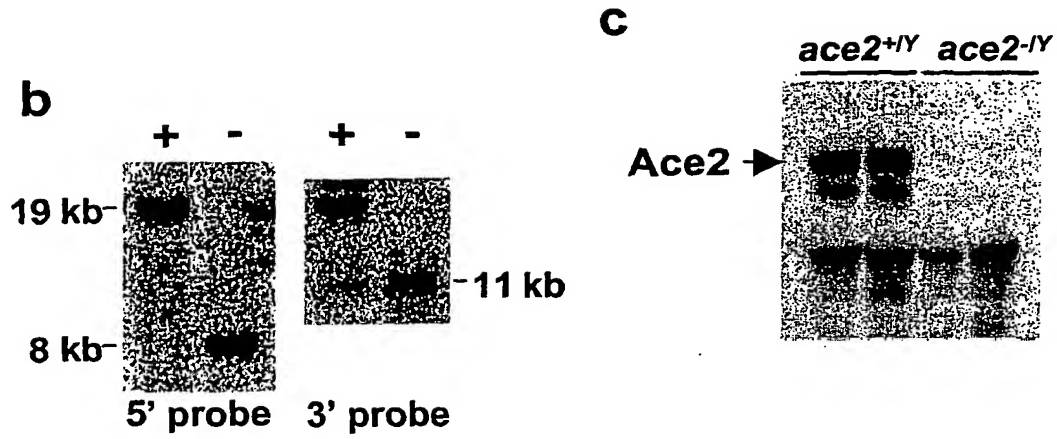


Figure 4a, 4b

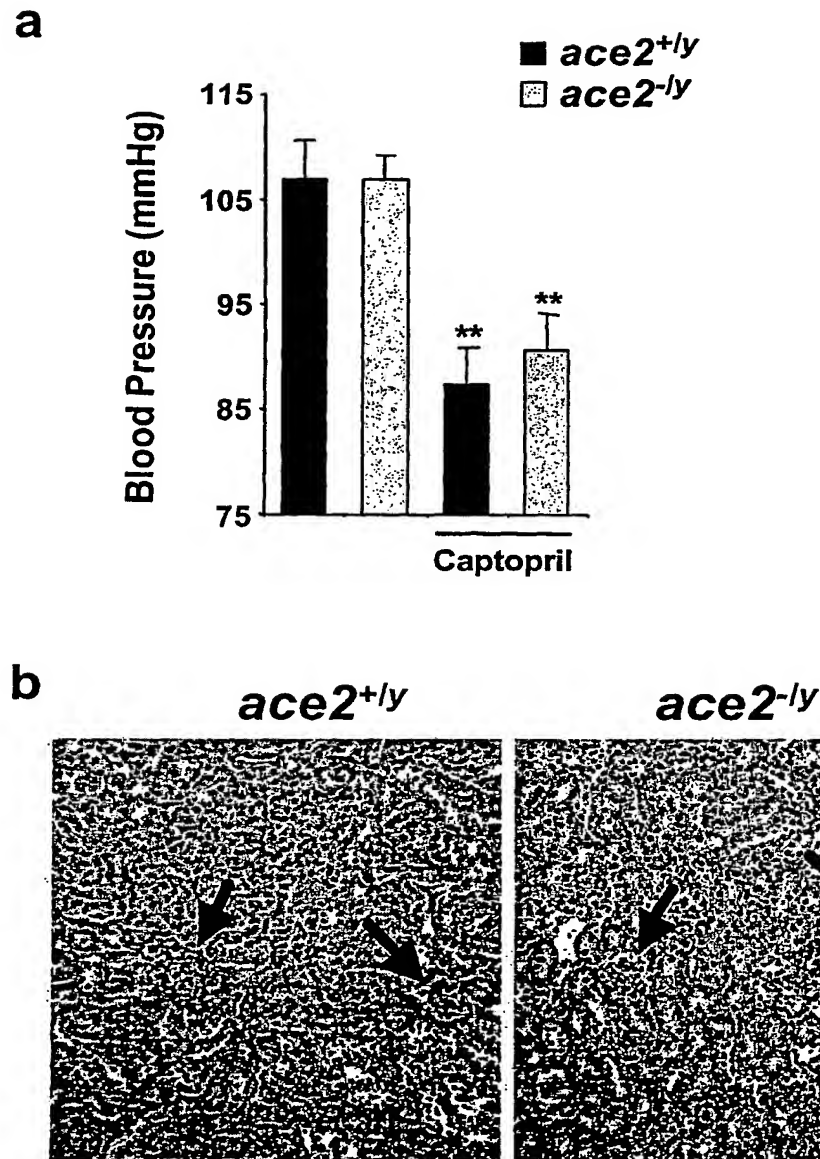


Figure 5a, 5b

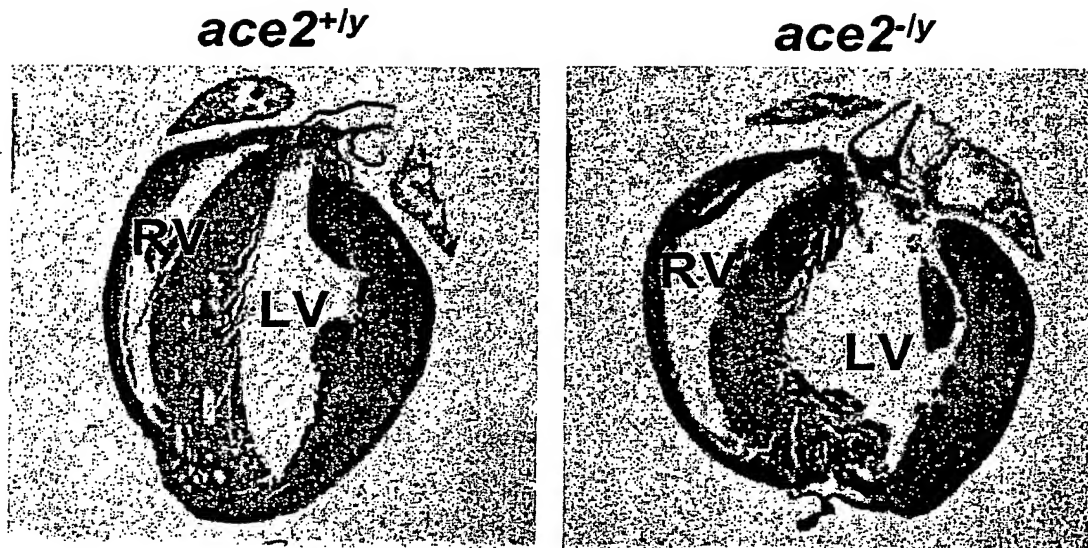
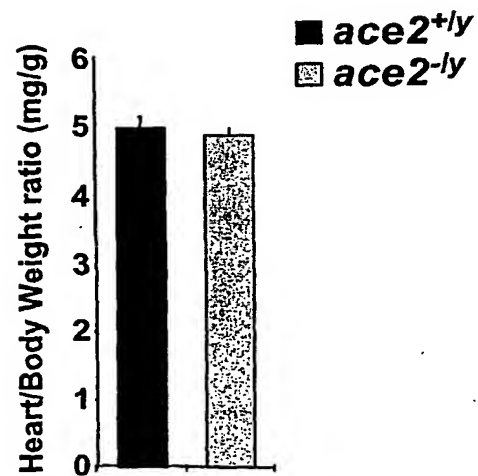
a**b**

Figure 5c, 5d

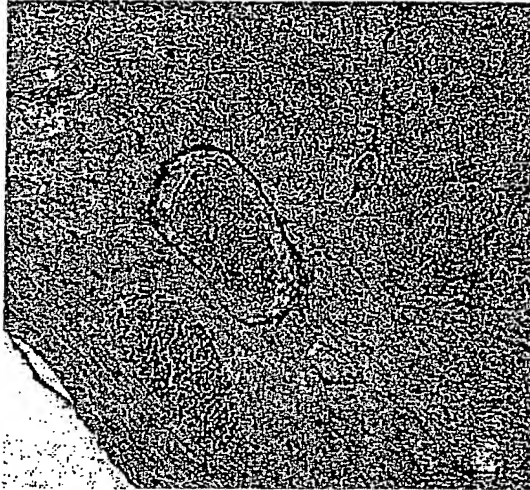
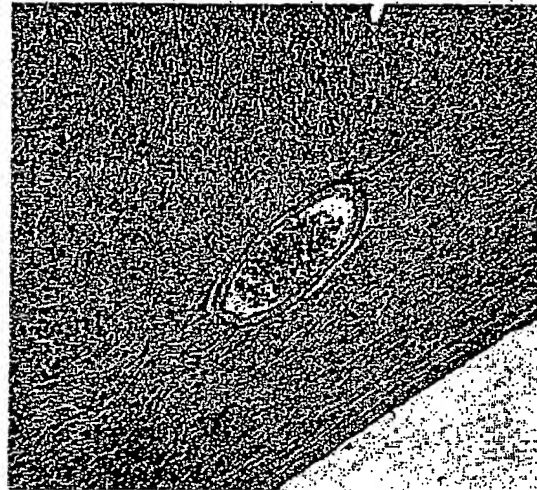
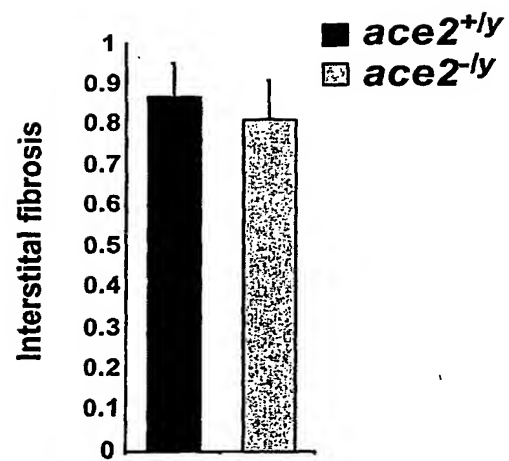
c*ace2^{+/-}**ace2^{-/-}***d**

Figure 6a

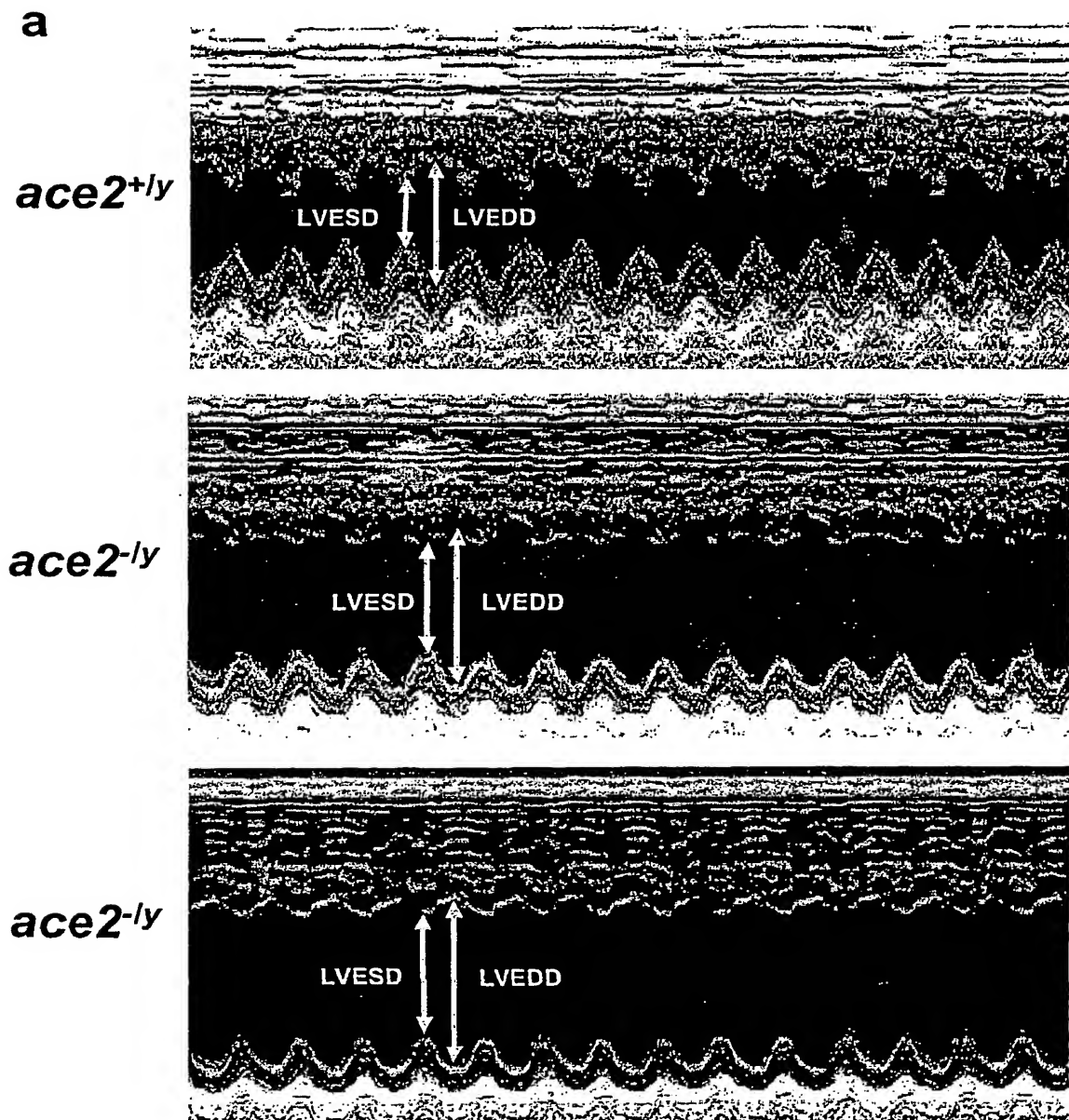


Figure 6b, 6c

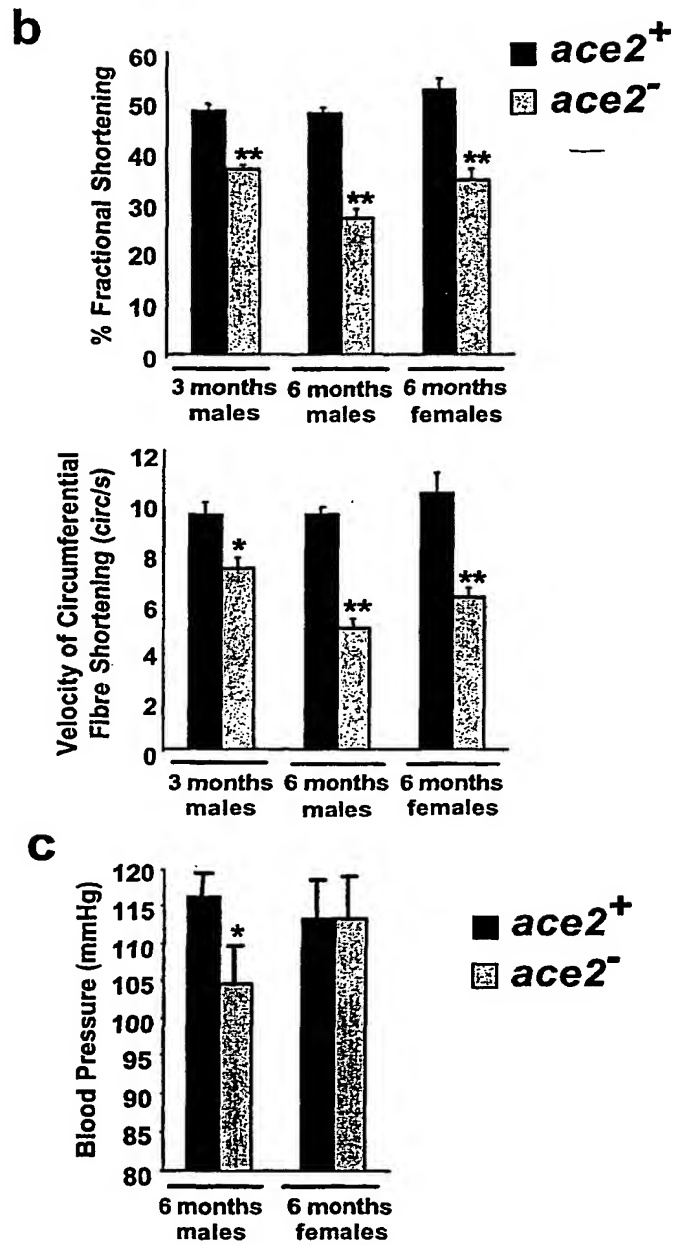


Figure 7a, 7b

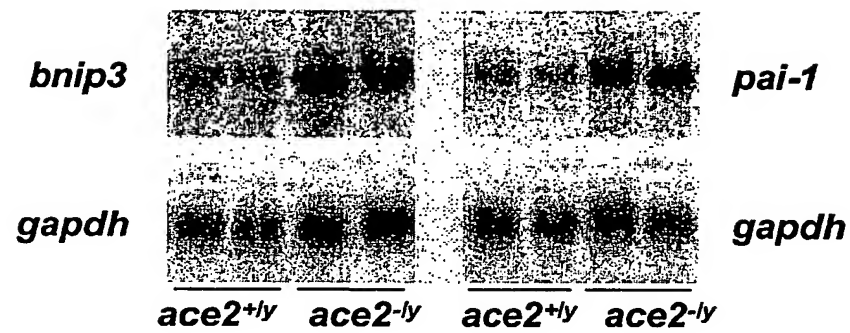
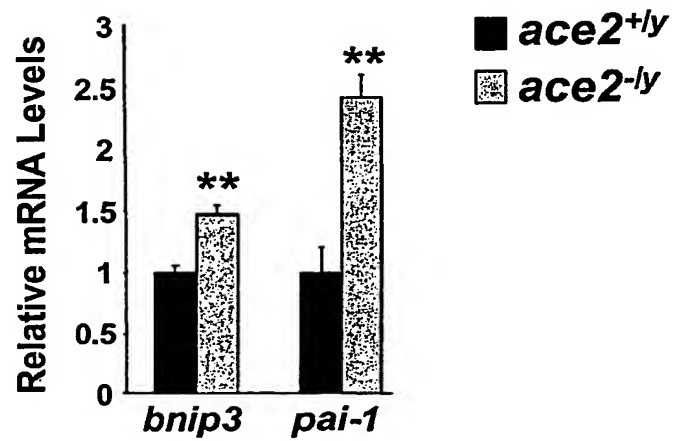
a**b**

Figure 7c

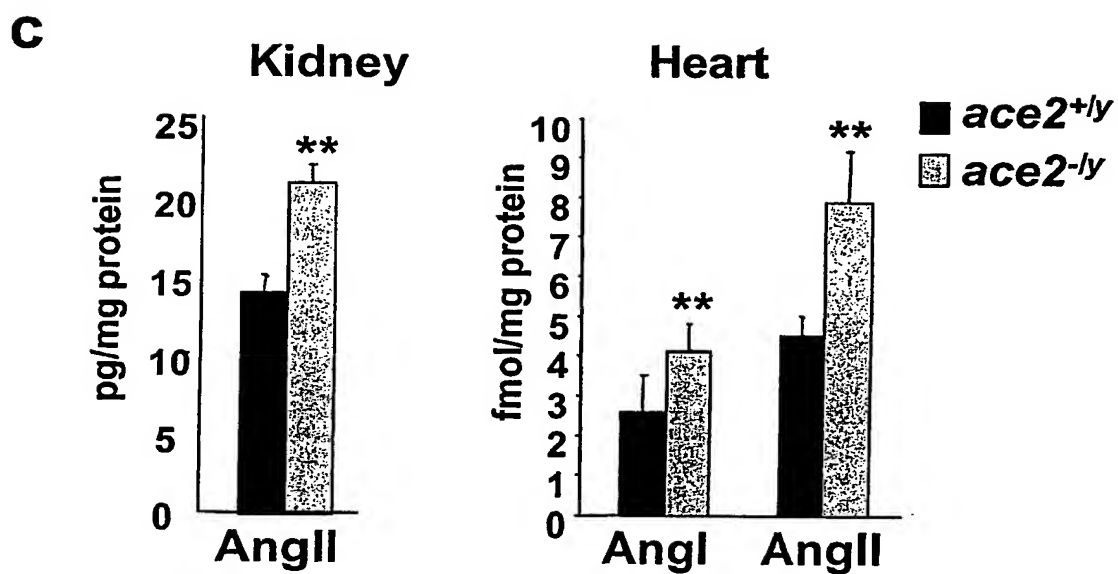


Figure 8a, 8b

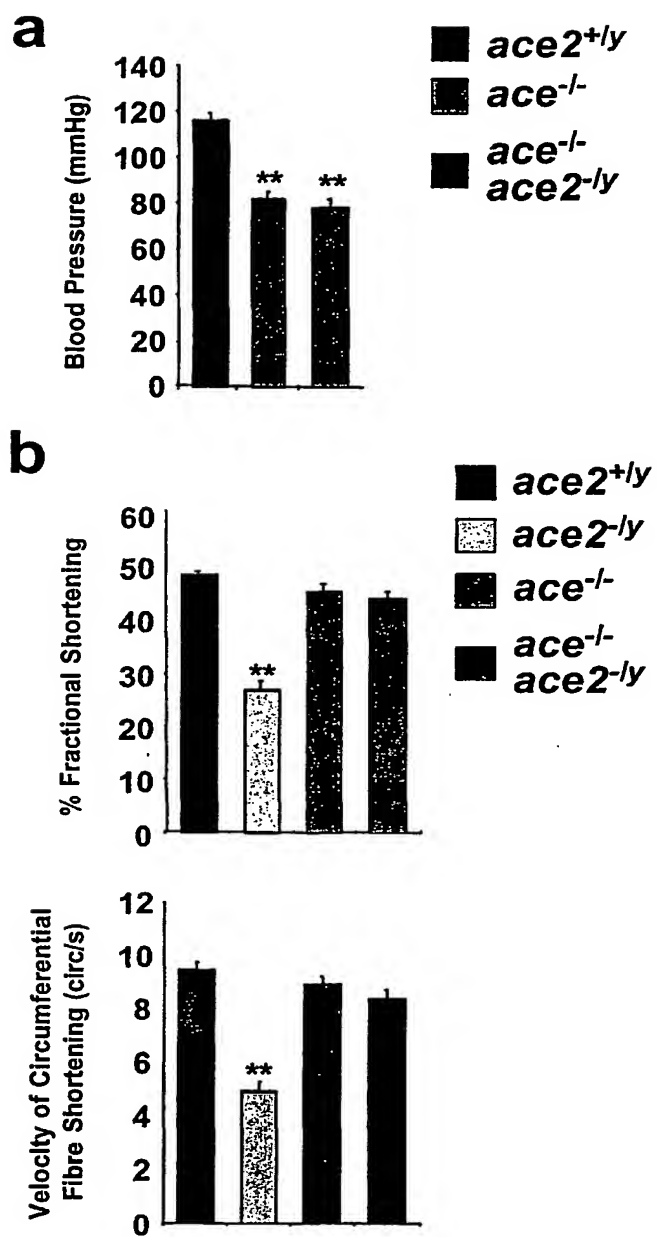


Figure 8c

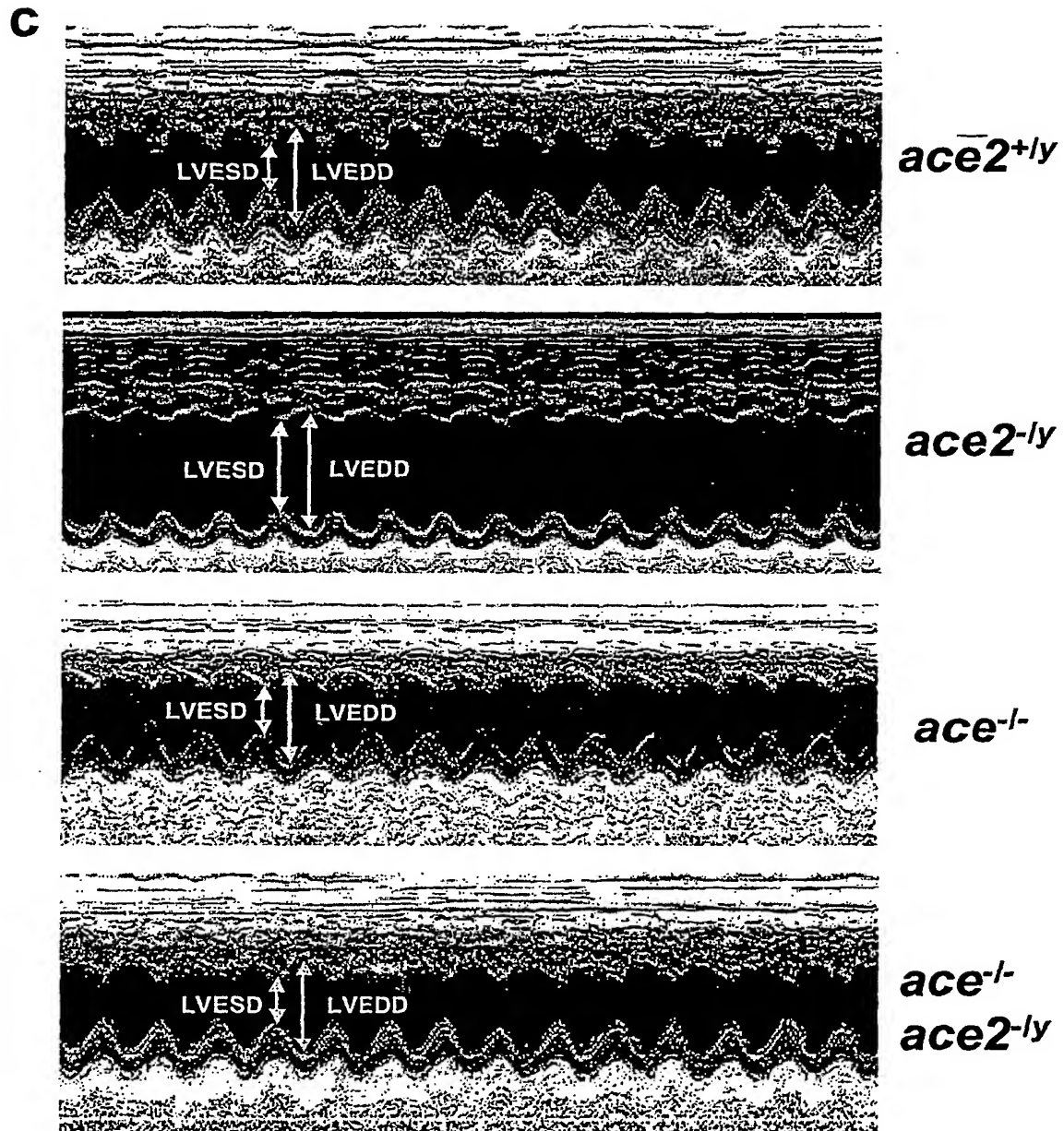


Figure 9

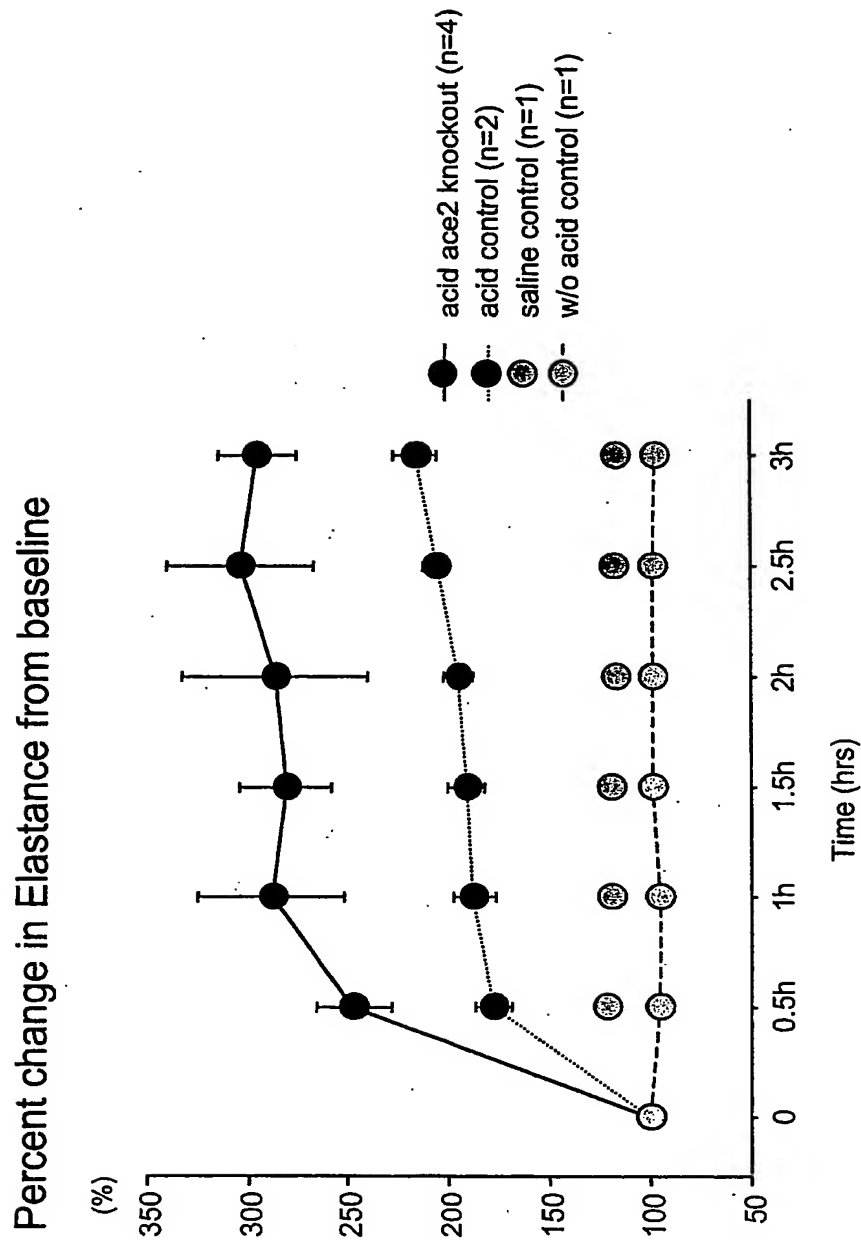


Figure 10a

```

1  cgcccaaccc aagttcaaag gctgataaga gagaaaatct catgaggagg ttttagtcta
61  gggaaagtca ttcagtggaat gtgatcttgg ctcacagggg acgatgtcaa gctcttcctg
121 gtcctttctc agccttggtg ctgtaactgc tgctcagttcc accattgagg aacaggccaa
181 gacatttttg gacaagttta accacgaagc cgaagacctg ttctatcaaa gttcacttgc
241 ttcttggaat tataacacca atattactga agagaatgtc caaaacatga ataatgctgg
301 ggacaaatgg tctgcctttt taaaggaaca gtccacactt gcccaaattg atccactaca
361 agaaattcag aatctcacag tcaagcttca gctgcaggct cttcagcaaa atgggtcttc
421 agtgctctca gaagacaaga gcaaacggtt gaacacaatt ctaaatacaa tgagcaccat
481 ctacagtact ggaaaagttt gtaaccaga taatccacaa gaatgcttat tacttgaacc
541 aggtttgaat gaaataatgg caaacagttt agactacaat gagaggctct gggcttggga
601 aagctggaga tctgagggtc gcaagcagct gaggccatta tatgaagagt atgtggtctt
661 gaaaaatgag atggcaagag caaatcatta tgaggactat ggggattatt ggagaggaga
721 ctatgaagta aatggggtag atggctatga ctacagccgc ggccagttga ttgaagatgt
781 ggaacatacc tttgaagaga ttaaaccatt atatgaacat cttcatgcct atgtgagggc
841 aaagtgtatg aatgcctatc cttcctatat cagtccaatt ggatgcctcc ctgctcattt
901 gcttggtgat atgtgggtta gattttggac aaatctgtac tctttgacag ttccttttgg
961 acagaaccca aacatagatg ttactgatgc aatggtggac caggcctggg atgcacagag
1021 aatattcaag gaggccgaga agttctttgt atctgttggg cttcctaata tgactcaagg
1081 attctgggaa aattccatgc taacggaccc aggaaatgtt cagaaagcag tctgccatcc
1141 cacagcttgg gacctgggga agggcgactt caggatcctt atgtgcacaa aggtgacaat
1201 ggacgacttc ctgacagctc atcatgagat ggggcatatc cagtatgata tggcatatgc
1261 tgcacaacct tttctgctaa gaaatggagc taatgaagga ttccatgaag ctggtgggga
1321 aatcatgtca ctttctgcag ccacacctaa gcatttaaaa tccattggtc ttctgtcacc
1381 cgattttcaa gaagacaatg aaacagaaat aaacttcctg ctcaaacaa cactcacgat
1441 tgttgggact ctgccattta cttacatggt agagaagtgg aggtggatgg tctttaaagg
1501 ggaaattccc aaagaccagt ggatgaaaaa gtggtgggag atgaagcgag agatagtgtg
1561 ggtggtggaa cctgtgcccc atgatgaaac atactgtgac cccgcatctc tgttccatgt
1621 ttctaagtat tactcattca ttcgatatta cacaaggacc ctttaccat ttcagtttca
1681 agaagcactt tgtcaagcag ctaaacatga aggccctctg cacaaatgtg acatctcaaa
1741 ctctacagaa gctggacaga aactgttcaa tatgctgagg cttggaaaat cagaaccctg
1801 gaccctagca ttggaaaatg ttgtaggagc aaagaacatg aatgtaaggc cactgctcaa
1861 ctactttgag cccttattta cctggctgaa agaccagaac aagaattctt ttgtgggatg
1921 gagtaccgac tggagtcctat atgcagacca aagcatcaaa gtgaggataa gcctaaaatc
1981 agctcttggg gataaagcat atgaatggaa cgacaatgaa atgtacctgt tccgatcatc
2041 tgttgcatat gctatgaggc agtacttttt aaaagtaaaa aatcagatga ttcttttttg
2101 ggaggaggat gtgctgagtg ctaatttgaa accaagaatc tcctttaatt tctttgtcac
2161 tgcacctaaa aatgtgtctg atatcattcc tagaactgaa gttgaaaagg ccatcaggat
2221 gtcccggagc cgtatcaatg atgctttccg tctgaatgac aacagcctag agtttctggg
2281 gatacagcca acacttgga ctcctaacca gccccctgtt tccatatggc tgattgtttt
2341 tggagttgtg atgggagtga tagtggttgg cattgtcatc ctgatcttca ctgggatcag
2401 agatcggaag aagaaaaata aagcaagaag tggagaaaat ccttatgcct ccatcgatat
2461 tagcaaaagg gaaaaataatc caggattcca aaacactgat gatgttcaga cctcctttta
2521 gaaaaatcta tgtttttcct cttgagggtga ttttgttga tgtaaatgtt aatttcatgg
2581 tatagaaaat ataagatgat aaagatatca ttaaatgtca aaactatgac tctgttcaga
2641 aaaaaaattg tccaaagaca acatggccaa ggagagagca tcttcattga cattgtcttc
2701 agtatttatt tctgtctctg gatttgactt ctgttctgtt tcttaataag gattttgtat
2761 tagagtatat tagggaaagt gtgtatttgg tctcacaggc tgttcaggga taatctaaat
2821 gtaaatgtct gttgaatttc tgaagttgaa aacaaggata tatcattgga gcaagtgttg
2881 gatcttgtat ggaatatgga tggatcactt gtaaggacag tgcctgggaa ctggtgtage
2941 tgcaaggatt gagaatggca tgcattagct cactttcatt taatccattg tcaaggatga

```

(continued next page)

WO 2004/000367

PCT/CA2003/000882

Figure 10a continued

```

3001 catgctttct tcacagtaac tcagttcaag tactatggtg atttgcctac agtgatgttt
3061 ggaatcgatc atgctttctt caaggtgaca ggtctaaaga gagaagaatc cagggaaacag
3121 gtagaggaca ttgctttttc acttccaagg tgcttgatca acatctccct gacaacacaa
3181 aactagagcc aggggcctcc gtgaactccc agagcatgcc tgatagaaac tcatttctac
3241 tgttctctaa ctgtggagtg aatggaaatt ccaactgtat gttcaccctc tgaagtgggt
3301 acccagtcctc ttaaactctt tgtatttgc t cagagtgttt gagcagtgtc gagcacaag
3361 cagacactca ataatgcta gatttacaca ctcaaaaaaa aaaaa

```

SEQ ID NO:1

Figure 10b

```

MSSSSWLLLSLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNAGDKWSAFLKEQSTIAQMY
PLQEIQNLTVKLQLQALQQNGSSVLSEDKSKRLNTILNTMSTIYSTGKVCNPDNPQECILLEPGLNEIMANSLDYNERLWAVE
SWRSEVGKQLRPLYEEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHLHAYVRALM
NAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFGQKPNIDVTDAMVDQAWDAQRI FKEAEKFFVSVGLPNMTQGFWENSM
LTDPGNVQKAVCHPTAWDLGKGDFRILMCTKVTMDDEFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATP
KHLKSIGLLSPDFQEDNETEINFLLKQALTIVGTLPFTYMLEKWRWMVFKGEIPKDQWMKKWEMKREIVGVVEPVPHDETYC
DPASLFHVSNDYSFIRYYTRTLYQFQFQALCQAAKHEGPLHKCDISNSTEAGQKLFNMLRLGKSEPWTLENNVVGAKNMNV
RPLLNYFEPLFTWLKDQNKNSFVGWSTDWSPYADQSIKVRISLKSALGDKAYEWNNDNEMYLFSSVAYAMROYFLKVKNQMIL
FGEEDVRVANLKPRI SFNFFVTAPKNVSDIIPRTEVEKAIRMSRSRINDAFRLNDNSLEFLGIQPTLGPPNPQPPVSIWLVFVG
VVMGVIVVGIVILIFTGIRDRKKKNKARSGENPYASIDISKGENNPGFQNTDDVQTSF

```

SEQ ID NO:2

Figure 11

```

1 catattggtc cagcagcttg tttactgttc tcttctgttt cttcttctgc tttttttttc
61 ttctcttctc agtgcccaac ccaagttcaa aggctgatga gagagaaaaa ctcatgaaga
121 gatttttactc tagggaaaagt tgctcagtgg atgggatctt ggcgcacggg gaaagatgtc
181 cagctcctcc tggctccttc tcagccttgt tgctgttact actgctcagt ccctcacoga
241 ggaaaatgcc aagacatttt taaacaactt taatcaggaa gctgaagacc tgtcttatca
301 aagttcactt gcttcttggg attataatac taacattact gaagaaaatg cccaaaagat
361 gagtgaggct gcagccaaat ggtctgcctt ttatgaagaa cagtctaaga ctgcccaaag
421 tttctcacta caagaaatcc agactccgat catcaagcgt caactacagg cccttcagca
481 aagtgggtct tcagcactct cagcagacaa gaacaaacag ttgaaacada ttctgaacac
541 catgagcacc atttacagta ctggaaaagt ttgcaaccca aagaacccac aagaatgctt
601 attacttgag ccaggattgg atgaaataat ggcgacaagc acagactaca actctaggct
661 ctgggcatgg gagggctgga gggctgaggt tggcaagcag ctgaggccgt tgtatgaaga
721 gtatgtggtc ctgaaaaacg agatggcaag agcaaacaat tataacgact atggggatta
781 ttggagaggg gactatgaag cagagggagc agatggctac aactataacc gtaaccagtt
841 gattgaagat gtagaacgta ccttcgcaga gatcaagcca ttgtatgagc atcttcatgc
901 ctatgtgagg aggaagttga tggataccta cccttcctac atcagcccca ctggatgcct
961 ccctgcccat ttgcttggtg atatgtgggg tagattttgg acaaatctgt accctttgac
1021 tgttcccttt gcacagaaac caaacataga tgttactgat gcaatgatga atcagggctg
1081 ggatgcagaa aggatatttc aagaggcaga gaaattcttt gtttctgttg gccctcctca
1141 tatgactcaa ggattctggg caaactctat gctgactgag ccagcagatg gccggaaagt
1201 tgtctgccac cccacagctt gggatctggg acacggagac ttcagaatca agatgtgtac
1261 aaaggtcaca atggacaact tcttgacagc ccatcacgag atgggacaca tccaatatga
1321 catggcatat gccaggcaac ctttctctgt aagaaacgga gccaatgaag ggttccatga
1381 agctgttggg gaaatcatgt cactttctgc agctaccccc aagcatctga aatccattgg
1441 tcttctgcca tccgattttc aagaagatag cgaacacagag ataaaacttc tactgaaaca
1501 ggcattgaca attgttggaa cactaccgtt tacttacatg ttagagaagt ggaggtggat
1561 ggtctttcgg ggtgaaattc ccaaagagca gtggatgaaa aagtgggtgg agatgaagcg
1621 ggagatcggt ggtgtgggtg agcctctgcc tcatgatgaa acatactgtg accctgcatc
1681 tctgttccat gtttctaatt attactcatt cattcgatat tacacaagga ccatttacca
1741 attccagttt caagaagctc tttgtcaagc agctaagtat aatggttctc tgcacaaatg
1801 tgacatctca aattccactg aagctgggca gaagttgctc aagatgctga gtcttggaaa
1861 ttcagagccc tggaccaaag ccttggaata tgtggtagga gcaaggaata tggatgtaaa
1921 accactgctc aattacttcc aaccgttggt tgactggctg aaagagcaga acagaaattc
1981 ttttgtgggg tggaaactg aatggagccc atatgccgac caaagcatta aagtgaggat
2041 aagcctaaaa tcagctcttg gagctaattg atatgaatgg accaacaacg aaatgttctc
2101 gttccgatca tctgttgcac atgccatgag aaagtatttt tcaataatca aaaaccagac
2161 agttcctttt cttagaggaag atgtacagat gaggatattg aaaccaagag tctccttcta
2221 cttctttgtc acctcacccc aaaatgtgtc tgatgtcatt cctagaagtg aagttgaaga
2281 tgccatcagg atgtctcggg gccgcatcaa tgatgtcttt ggcctgaatg ataacagcct
2341 ggagtttctg gggattcacc caacacttga gccacottac cagcctcctg taccatatg
2401 gctgattatt tttgggtgtg tgatggcact ggtagtgtgt ggcacatca tcttgattgt
2461 cactggcatc aaaggtcgaa agaagaaaaa tgaaacaaaa agagaagaga acccttatga
2521 ctgatggac attggaaaag gagaaagcaa tgcaggattc caaaacagtg atgatgctca
2581 gacttctttt tagcaaaagc cttgtcatct tcctgtatgt aaatgctaac ttcatagtag
2641 acaaaaatat agagtataca catgtcatta gctatcaaaa ctatgatctg ttcagtaaac
2701 gttgtccaaa gagcatcaaa aaaaaaaaaa aaaaaaaaaa

```

SEQ ID NO:3

rsID	African Am		Asian		Caucasian		Reference
	C(G)	60	100	70	70	C	
rs879922	C(G)	60	100	70	70	C	TTAACTTGAAGTCCAAAAACATATGTTCTTACCTA[C/G]TAAACCCAGT CCTGAATTGCTGGAGCTCAGTTT SEQ ID NO. 5
rs757066	T(C/T)	100	100	70	70	T	GTATCTACCATCAGAAACACAAGCTTGTC[C/T]AGGATATTAGCTA ATAAAGTTTGTAACat SEQ ID NO.6
rs714205	C(G)	70	50	80	80	C	CCATGAGTTCTAGCCAGACTTTCTTCAACGACACCTGCTGCC[C/G]TT TACCAGAGAGCATTTCTCAGACCACAAGATCC SEQ ID NO. 7
rs329442	C(A/C)	50	90	90	90	A/C	Acagggttgcttaaaactcaatcagagtgatgtaaacctgcacatc[C/A] CACATTTGGAAATATTCTGGTGTATCTTTGTTATTTAATTTCTCAGTGGG T SEQ ID NO.8
rs233574	C(C/T)	80	100	60	60	C	Attgaccactgcccctagccaggtagacagagcaagactc[C/T] GTTTCAAAAAAAGGAAATATACACC SEQ ID NO.9
rs1978124	C(C/T)	90	100	50	50	C	CTTTGGAAACCTGTTTAAACCAAGCTTTTTCATATCTCTATCTGAT GGAC[C/T]TCTCCACACTTCTAGATCAGCAGCTTTATGACAC SEQ ID NO. 10
rs1978124-2(new)	G(G/A)	30	70	40	40	C	CTTTGGAAACCTGTTTAAACCAAGCTTTTTCATATCTCTATCTGAT GG[G/A]CCTCTCCACACTTCTAGATCAGCAGCTTTATGACAC SEQ ID NO. 11
rs1514282	A(A/G)	70	100	100	100	A	AACACAGCAGTCACAAATGAATAATGCCAACCAATTATACATTTCCAC ACTT[G/A]CAACTCAAATTTCCAAATGGAGCTGTTGATGAACCTAATCTA GGTTGCAAGGCATGAAA SEQ ID NO. 12
rs1514282-2(new)	A(A/G)	20	50	30	30	A	TTCTTGCCAAATATGATAACTTTGCCCTTAAACACAGCAGTCACAAATG AATAAT[G/A]CCAACCATTTATACATTTCCACACTTAGAACCTCAATTT CCAATGGAGCTGTTGATG SEQ ID NO.13
rs1514281	A(A/G)	70	100	100	100	A	GAAATCTTGCCAAATATGATAACTTTGCCCTTAAACACAGCAGTCACA AATGAATAAATACCA[G/A]ACCATTTATACATTTCCACACTTAGAACCTCA ATTTCCAAATGGAGCTGTTGATGAA SEQ ID NO. 14
rs1514281-2(new)	A(A/G)	20	50	50	50	A	GAAATCTTGCCAAATATGATAACTTTGCCCTTAAACACAGCAGTCACA AATGAATAAAT[G/A]CCAACCATTTATACATTTCCACACTTAGAACCTCAA TTTCCAAATGGAGCTGTTGATGAA SEQ ID NO. 15
rs1514279	A(A/G)	Failed	100	70	70	A	ATAGTCACATAAATGATTGCCAGGACTACTATGCT[G/A]TATCTTATAT GATGGTCTTTATGAATATCTG SEQ ID NO. 16
rs1514280	C(C/T)	80	100	80	80	C	GTTACAAAGTGTTATTTTTCATTTGAA[C/T]GTCAAGTTTTTCTTTTACA CTTATAGATAAGTACATTTT SEQ ID NO.17
rs233575	C(C/T)	100	100	50	50	C	GTGCTACCTCCAAATGCCAATACCTTTTATTTGGAAATAC[C/T] TACTATAGAGACTTGGTTCATAGGACCTGATTCATT SEQ ID NO. 18

Figure 12